

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P1498054

Luminaire Tested: MAE-G-2-120-1HI-HI-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-1HI-HI-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

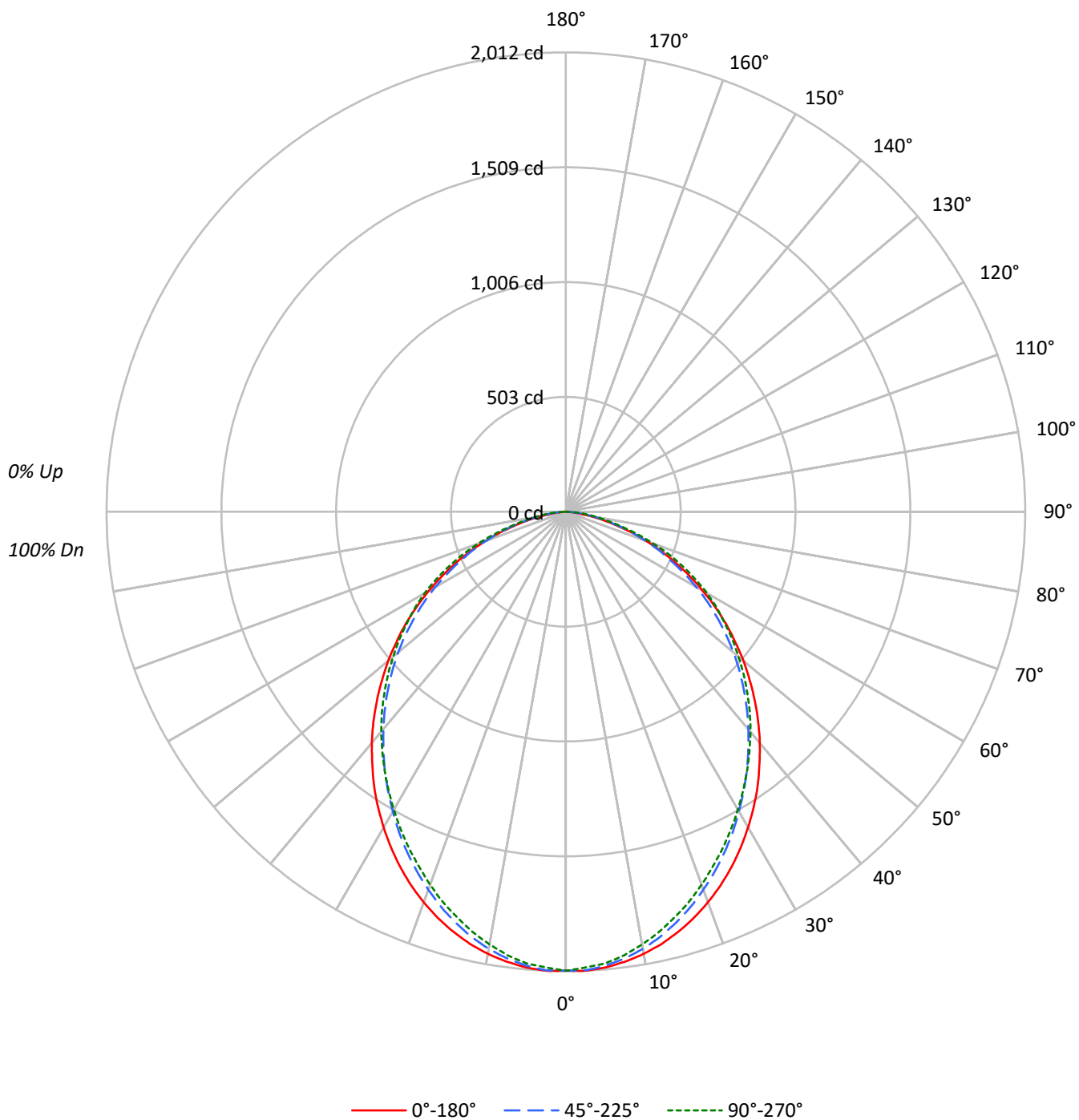
Lumens per Lamp: N/A
Luminaire Lumens: 4802.0 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 65.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1498054

CATALOG NUMBER: MAE-G-2-120-1HI-HI-35-90-VRDCPH

Luminous Intensity Polar Plot



TEST NUMBER: P1498054

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5409	5409	5409
5°	5411	5390	5363
10°	5372	5311	5258
15°	5305	5191	5124
20°	5213	5043	4977
25°	5098	4885	4827
30°	4960	4708	4681
35°	4812	4542	4546
40°	4643	4367	4418
45°	4453	4195	4278
50°	4251	4012	4133
55°	4017	3799	3982
60°	3730	3554	3851
65°	3396	3242	3591
70°	2948	2921	3219
75°	2355	2498	2670
80°	1632	1948	2145
85°	911	1497	1958

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4453 cd/sqm

TEST NUMBER: P1498054

CATALOG NUMBER: MAE-G-2-120-1HI-HI-35-90-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.6	3.9
10°-20°	525.6	10.9
20°-30°	762.8	15.9
30°-40°	877.2	18.3
40°-50°	867.7	18.1
50°-60°	742.5	15.5
60°-70°	524.4	10.9
70°-80°	256.6	5.3
80°-90°	56.6	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1477.0	30.8
0°-40°	2354.3	49.0
0°-60°	3964.5	82.6
0°-90°	4802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2010	2010	2010	2010	2010	
5°	2003	2002	1995	1981	1985	190
15°	1904	1893	1863	1837	1839	537
25°	1717	1691	1645	1622	1626	790
35°	1465	1429	1382	1375	1384	915
45°	1170	1137	1102	1113	1124	903
55°	856	825	810	831	849	764
65°	533	509	509	547	564	528
75°	226	216	240	256	257	244
85°	30	36	48	59	63	42
90°	0	0	0	0	0	

TEST NUMBER: P1498054

CATALOG NUMBER: MAE-G-2-120-1HI-HI-35-90-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2010.2	2010.2	2010.2	2010.2	2010.2
2.5°	2012.4	2014.1	2010.2	1994.9	1997.6
5°	2003.3	2001.6	1995.4	1980.8	1985.3
7.5°	1987.4	1984.5	1973.4	1956.0	1958.9
10°	1966.1	1960.4	1943.8	1922.1	1924.4
12.5°	1938.7	1931.0	1907.5	1882.6	1885.0
15°	1904.4	1893.4	1863.3	1836.9	1839.3
17.5°	1864.9	1852.2	1815.7	1787.0	1792.4
20°	1820.3	1803.2	1761.1	1733.7	1738.1
22.5°	1771.1	1749.6	1705.3	1678.7	1681.9
25°	1716.9	1690.8	1645.1	1621.9	1625.8
27.5°	1658.5	1629.7	1582.6	1561.1	1567.3
30°	1596.3	1565.1	1515.3	1499.6	1506.4
32.5°	1532.2	1499.1	1449.8	1438.7	1445.6
35°	1464.9	1428.8	1382.5	1374.9	1383.7
37.5°	1392.9	1358.1	1312.3	1312.9	1321.0
40°	1321.6	1285.6	1243.3	1247.9	1257.8
42.5°	1247.3	1212.5	1173.7	1181.1	1192.8
45°	1170.2	1136.7	1102.4	1113.2	1124.2
47.5°	1092.5	1059.5	1031.0	1044.1	1057.4
50°	1015.5	983.6	958.3	974.9	987.2
52.5°	934.6	904.3	885.3	903.0	919.2
55°	856.2	825.4	809.7	831.3	848.7
57.5°	775.2	749.6	735.8	762.0	783.9
60°	693.0	667.8	660.4	694.4	715.5
62.5°	612.6	587.9	583.6	624.1	639.7
65°	533.3	509.1	509.1	547.3	564.0
67.5°	454.7	432.5	440.8	478.0	489.4
70°	374.7	355.0	371.2	403.0	409.1
72.5°	299.5	283.0	305.7	328.6	330.5
75°	226.5	216.1	240.3	256.1	256.8
77.5°	162.2	156.7	179.4	190.6	191.9
80°	105.3	107.6	125.7	134.6	138.4
82.5°	61.4	67.0	81.2	95.1	98.9
85°	29.5	36.2	48.5	59.1	63.4
87.5°	10.2	14.6	20.3	22.5	21.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1498054

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.67	18.25	17.03	18.57	18.88	16.79	18.37	17.15	18.68	19.00
	3H	18.12	19.55	18.50	19.87	20.24	18.45	19.87	18.82	20.20	20.56
	4H	18.55	19.89	18.95	20.24	20.62	18.96	20.30	19.36	20.65	21.03
	6H	18.77	20.01	19.19	20.38	20.77	19.27	20.51	19.68	20.88	21.27
	8H	18.81	19.99	19.24	20.38	20.78	19.37	20.55	19.79	20.94	21.34
	12H	18.82	19.95	19.24	20.33	20.76	19.43	20.56	19.86	20.95	21.37
4H	2H	17.18	18.52	17.58	18.87	19.24	17.28	18.62	17.68	18.96	19.34
	3H	18.82	19.93	19.23	20.33	20.73	19.14	20.26	19.55	20.66	21.06
	4H	19.34	20.34	19.77	20.75	21.19	19.77	20.78	20.20	21.19	21.63
	6H	19.64	20.51	20.09	20.95	21.41	20.19	21.06	20.64	21.50	21.96
	8H	19.69	20.51	20.16	20.96	21.42	20.32	21.14	20.78	21.58	22.04
	12H	19.72	20.45	20.20	20.93	21.40	20.42	21.15	20.90	21.63	22.10
8H	4H	19.56	20.38	20.02	20.82	21.29	19.96	20.77	20.42	21.22	21.68
	6H	19.93	20.61	20.43	21.10	21.57	20.46	21.13	20.95	21.62	22.10
	8H	20.02	20.63	20.53	21.14	21.62	20.64	21.25	21.15	21.76	22.24
	12H	20.08	20.61	20.58	21.10	21.67	20.81	21.34	21.32	21.83	22.40
12H	4H	19.58	20.31	20.06	20.78	21.25	19.96	20.69	20.44	21.17	21.64
	6H	19.96	20.56	20.47	21.07	21.56	20.46	21.07	20.97	21.58	22.06
	8H	20.09	20.62	20.60	21.11	21.68	20.69	21.23	21.20	21.72	22.28